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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/905,000	07/13/2001	Masaaki Takagi	M1951-2	3447

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DARBY & DARBY P.C. P. O. BOX 5257 NEW YORK, NY 10150-5257 EXAMINER

ELKASSABGI, HEBA

ART UNIT PAPER NUMBER

2834

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Please find below and/or attached an Office communication concerning this application or proceeding.

### Application No. Applicat			1 /			
### Deficies Action Summary Examiner	1	Application No.	Applicant(s)			
Heba Elkassabgi 2834		09/905,000	MASAAKI ET AL.			
- The MALLNG DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Exercises of them gate a satisfied under the provisions of 37 CPR 1.39(a). In no event, however, may a reply be simely filled. If the period for reply is pecified above is less than theny (30) days, a reply within the stabulary minimum of thiny (30) days will be considered timely. If the period for reply is pecified above is less than theny (30) days, a reply within the stabulary minimum of thiny (30) days will be considered timely. If NO period for reply is pecified above is less than theny (30) days, a reply within the think (30) days will be considered timely. If NO period for reply is pecified above is less than theny (30) days, a reply within the think (30) days will be considered timely. If NO period for reply is pecified above is less than theny (30) days, a reply within the think (30) days will be considered timely. If NO period for reply is pecified above is less than theny (30) days, a reply within the think (30) days will be considered timely. If NO period for reply is pecified to the communication, even if meny float, any reduce of the communication, even if meny float, any reduce only reduced any reduced	Office Action Summary	Examiner	Art Unit			
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	Attachment(s)					
I.S. Palent and Transmark Office	Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal				

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first, second, third thickness as claimed in claims 3,5,and 7, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 9 is objected to because of the following informalities: On page 19 line 23 the word rotor needs to be corrected to spell rotor. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. On page 17, line 6, "said fifth and sixth sections" needs to be

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clarified as to whether the applicant regards the sections to be the wall sections or arcuate sections; for purpose of continuation of examination the examiner will regard the sections as the wall sections.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. On page 17, line 23, the "plurality of poles" is unclear to the examiner as to whether the applicant is referring to the claw-poles or the magnetic poles, clarification is requested by the examiner. On page 18, line 2 "said first and said case units: needs to be clarified as to what the applicant is disclosing in the claim for the purpose of continuation of examination the examiner will regard the statement to be — said first and said second case units—.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. On page 18, line 9, the "case units including a magnetic material" is not clear as to the examiner as to whether the case is made of magnetic material or if there is another object that is of magnetic material this needs to be clarified to the examiner. On page 18, line 11, the "case units having a shape supporting said rotor" needs to be clarified as to what type of shape supports the rotor. On page 19, line 4, the "plurality of poles", needs to be clarified as to which poles the applicant is referring too, whether it is the claw poles or the magnet poles.

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Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. On page 19, line 20, the "case units including a magnetic material" is not clear as to the examiner as to whether the case is made of magnetic material or if there is another object that is of magnetic material this needs to be clarified to the examiner. On page 21, line 11, the "case units having a shape supporting said rotor" needs to be clarified as to what type of shape supports the rotor.

Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. On page 21, line 1, the "magnetic plate having a shape" is indefinite as to what the shape maybe, the applicant needs to clarify the shape of the magnetic plate.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims s 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Prior Art (APA) and further in view of Nobuaki et al. (J.P. Patent Application 09-238400).

Applicants Prior Art discloses in Figure 5, a claw-pole permanent magnet stepping motor (100) of magnetic material, having a first case unit (112) aligned with a second case unit (113), a rotor (102) having at least two permanent magnets (102) with the first (112) and the second (113) case units having a shape supporting the rotor (102). Two arcuate sections on the first (112) and second (112) case units, with twosidewall sections joining each respective arcuate section in a continuous flattened-oval section about the rotor (102). The arcuate sections each have a diameter (L1) and a ratio of total length (L2) to the diameter of at least 1:1 or 2:1. The wall sections having a planar shape and closer to the rotor (102) than the two arcuate sections, with the first case unit (112) having a flattened-oval cross-section. A bearing (115) in the first (112) and second (113) case unit, the rotor (102) is supported between the bearings (115) with a plurality of poles on the permanent magnets (103), A first (A) and second (B) phase inductor in the first (112) and second (113) unit case opposite each permanent magnets (103). The first (A) and second (B) phase inductors are symmetrical in the first case unit (112) and the first (A) and second (B) phase inductors from the magnetic plates, that a first (108) and a second (109) coil with a set of connectors. The first (112) and second (113) case units having a shape supporting the rotor (102); The first (A) and second (B) phase inductors are formed from at least two magnetic plates having multiple claw-poles and a first (108) and a second (109) coil with a set of connectors.

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The first (112) and second (113) case units having a diameter with a ratio of the length of at least 1:1 or 2:1. A securing section (114) detachably attached to an outside side surface of at least one of the first (112) and second (113) case unit. The securing section (114) containing an externally threaded section and fixed to an external attachment base of the claw-pole permanent magnet stepping motor (100). Each coil (108-109) includes a coil bobbin with an insulated copper wire wrapped around the coil bobbin. A connector to the coil bobbin includes a first and second collar. The connector disposed at one of the first and second collar orthogonal to the coil. The coil bobbin having a flat oval shape with arcuate sections. However Applicants prior art does not disclose arcuate sections having a thickness different from the thickness of the wall sections.

Nobuaki et al. discloses in Figure 4, two arcuate sections (9) each having a greater thickness than the two wall sections (9c-9b), in order to reduce the diameter of the rotor and the number of turns in the coil.

It would have been obvious to one of ordinary skill in the art to combine Nobuaki et al. with the applicant's prior art in order to reduce the diameter of the rotor and the number of turns in the coil.

In regards to Claims 6 and 7 the selection of a metal bearing, as a known material based upon its suitability for the intended use is a design consideration within the skill of the art. In re Leshin, 227 F.2d 197, 125 USPQ 416.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (703) 305-2723. The examiner can normally be reached on M-Th (6:30-3:30), and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

HYE October 1, 2002 MESTOR BAMIREZ SHITTINGSON DAYENT EVANIA

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